





PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	See Notification of	Transmittal of International			
T 44512WO/70/hs	Preliminary Examination Report (Form PCT/IPEA/416)					
International application No. PCT/DE2003/003905	International filing date (day/n	• • •	date (day/month/year)			
International Patent Classification (IPC) or n	26 November 2003 (26.	11.2003) 09 De	ecember 2002 (09.12.2002)			
B29C 49/00, 49/48, B29D 23/00	ational crassification and IPC					
Applicant						
	COR GMBH RAHN PLAS	TMASCHINEN				
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 						
2. This REPORT consists of a total of	5 sheets, including	g this cover sheet.				
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
These annexes consist of a total of 4 sheets.						
This report contains indications relat	ing to the following items:					
I Basis of the report						
II Priority						
III Non-establishment o	f opinion with regard to novelty,	inventive step and indu	strial applicability			
IV Lack of unity of inve	ention					
V Reasoned statement citations and explana	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;					
VI Certain documents ci						
VII Certain defects in the	VII Certain defects in the international application					
VIII Certain observations	VIII Certain observations on the international application					
Date of submission of the demand		Date of completion of this report				
11 June 2004 (11.06.2004)		29 August 20	05 (29.08.2005)			
Name and mailing address of the IPEA/EP		Authorized officer				
Facsimile No.		Telephone No				

Form PCT/IPEA/409 (cover sheet) (July 1998)

Translation

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International application No.

I. Basis of	the report	PCT/DE2003/003905
1. With re	gard to the elements of the international application:*	
l l ti	ne international application as originally filed	
I ⊠ t	e description:	
	ages	
1	3-6	
_	ages 1.2.2	, as originally file
		ne letter of 21 August 2004 (21 08 2004)
≥ th	e claims:	21 August 2004 (21.08.2004)
pa	ges 2-4	
pa	gcs ————————————————————————————————————	, as originally file
pa	ges, as amen	ded (together with any statement under Article 1)
pa	ges, filed with the drawings:	, filed with the deman
□ the	drawings:	e letter of21 August 2004 (21.08.2004)
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page	es	, filed with the demand
2 With reco-	d to the language, all the elements marked above were available or furnients were available or furnients were available or furnished to this Authority in the language.	letter of
the I	anguage of a translation furnished for the purposes of international search	which is: h (under Rule 23.1(b)).
or 55	rd to any and to the	reliminary examination (under Rule 55.2 and/
H 00.11.6	uned in the international application in written form	e international application, the international
H mea	together with the international application in computer were to the	
	and subsequently to this Authority in written form	
furnis	thed subsequently to this Authority in computer readable form.	
L The	statement that the subsequently firming and able form.	
intern The s	statement that the subsequently furnished written sequence listing ational application as filed has been furnished.	does not go beyond the disclosure in the
	tatement that the information recorded in computer readable form is urnished.	identical to the written sequence listing has
The ar	nendments have resulted in the cancellation of:	. 41
	the description, pages	1
	the claims, Nos.	1
	the drawings, sheets/fig	A 13E
This ren	oort has been established as if (some of) the amendments had not been rethe disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c	nade, since they have been considered to go
Renlacement .	heets which have been furnished to the receiving Office in response to a s "originally filed" and are not annexed to this report since they	<i>"</i>
nd 70 171	annexed to this report since the	
nnd 70.17). Iny replaceme	nt sheet containing such amendments must be referred to under item 1 ar	ao not contain amendments (Rule 70.16

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•	rnational	application No.
	PCT/DE	03/03905

v.	Reasoned statement under Article citations and explanations supporti	35(2) with regard to nove ng such statement	elty, inventive step or industrial appl	licability;
1.	Statement			
	Novelty (N)	Claims	1-4	YES
		Claims		NO
	Inventive step (IS)	Claims	1-4	YES
		Claims –		NO
	Industrial applicability (IA)	Claims	1-4	YES
		Claims		NO

- 2. Citations and explanations
 - Reference is made to the following document:

D1: US-A-4492551.

- The following observations are made with reference to PCT Article 33.
- Document D1, which is considered the prior art 2.1 closest to claim 1, discloses (the references between parentheses relate to document D1) a mould half shell for a device (figure 1) for producing pipes having transverse grooves, wherein the half shell (2) comprising end faces (see the view in figure 2) which are oriented alongside a moulding section (9) in the direction of feed (4) and are disposed parallel and close to each other, contact each other closely and with a positive fit; a base area (30); and on its inside a cooling channel (33) with a coolant inlet (34) and a coolant outlet (36) for a coolant, wherein the inlet and outlet discharge into the base area (30) of the half shell (2) at a distance from each other. The subject matter of claim 1 differs from the above in that the coolant inlet and the coolant outlet, as seen when

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looking at the end faces of the half shells (2), intersect and are oriented in opposite directions to the direction of feed of the half shells (2) so as to ensure that the coolant is delivered to the cooling channel.

The subject matter of claim 1 is therefore novel (PCT Article 33(2)).

The problem to be solved by claim 1 is to increase the water flow rate through the cooling channel (see page 2, paragraph 3).

The available prior art offers nothing to suggest the features of the solution as proposed in the characterizing part of claim 1. The features of the solution are also not disclosed in the search report citations. Consequently, the subject matter of claim 1 involves an inventive step (PCT Article 33(3)).

- 2.2 Claims 3-4 are dependent on claim 1 and therefore likewise meet the PCT requirements for novelty and inventive step.
- Claims 1-4 meet the requirement for industrial applicability (PCT Article 33(4)).